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The present guide provides data on the kinds, requirements, and characteristics of undergraduate degree programs in mathematics at each institution that participated in the survey of mathematics programs conducted in January of 1961 by the Office of Education. The survey was conducted by questionnaire. Of 1,013 colleges and universities contacted, 864 responded.

Data are given by State, under the name and location of the undergraduate institution. (For information on *Graduate* programs, see 8107.) Although statistical or analytical interpretations are not given in this report, they will appear in the comprehensive report to be issued later by the Office of Education. A selected bibliography on careers in mathematics is included.

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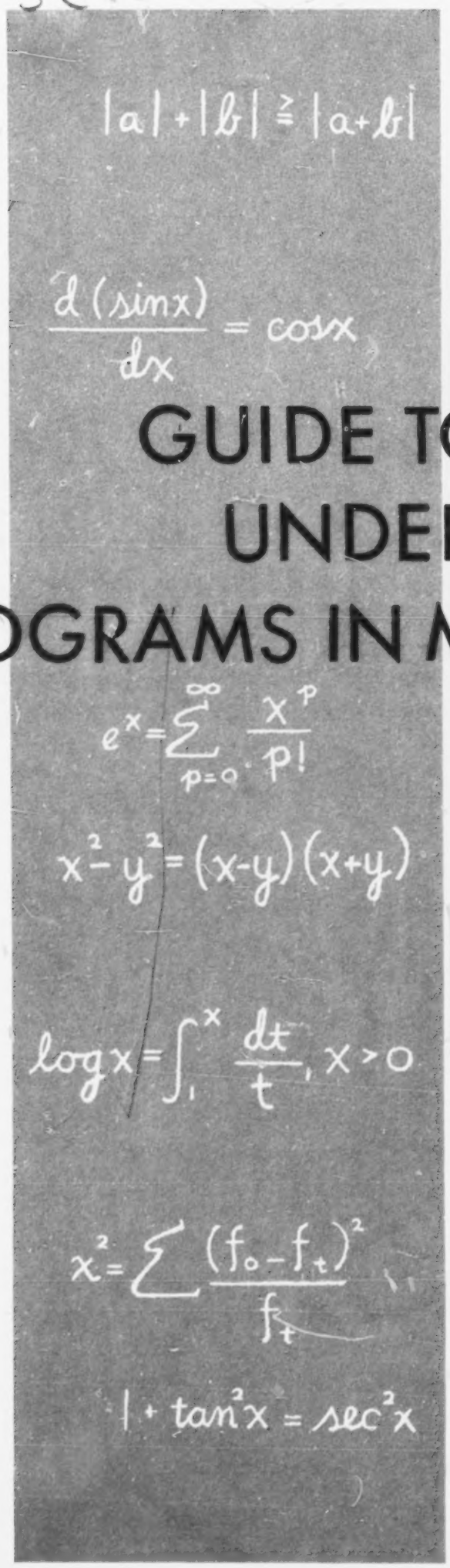

GUIDE TO UNDERGRADUATE PROGRAMS IN MATHEMATICS

U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Office of Education

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GUIDE TO UNDERGRADUATE PROGRAMS IN MATHEMATICS

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U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE ... Abraham Ribicoff, Secretary
Office of Education ..... Sterling M. McMurrin, Commissioner

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Contents

	Page
Foreword	v
Purpose of the Study	1
Explanation of Table and Symbols Used	1
Undergraduate Degree Programs in Colleges and Universities: 1961	3
Institutions Which Grant Bachelor's Degrees in Mathematics But Did Not Participate in the Survey	21
Bibliography on Careers in Mathematics	23

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Foreword

SINCE THE MIDDLE of the 1950's the number of earned degrees in mathematics has been increasing at a faster rate than in any other major discipline. From 1954–55 to 1959–60, according to *Earned Degrees Conferred: Bachelor's and Higher Degrees*, issued by the Office of Education, the number of bachelor's degrees awarded annually in mathematics increased from 4,034 to 11,437; the number of master's degrees, from 761 to 1,765; and the number of doctor's degrees, from 250 to 303.

Following World War II, computer science and technology created new opportunities for graduates in mathematics, and the need for persons with competency in mathematics was accelerated by our strides in space science and automation. For the computing field alone an official of the *Association for Computing Machinery* estimates that approximately 300,000 programers will be needed in the next 8 to 10 years. Many of the positions will require college-level mathematics, and for some of the positions a degree in mathematics will be highly desirable. The demand is also great for teachers of mathematics at all levels of education.

These expanding opportunities in the field of mathematics have increased the need for reliable information about educational and career opportunities. This guide provides data on the kinds, requirements, and characteristics of undergraduate degree programs in mathematics at each institution which participated in the survey of mathematics programs conducted in 1961 by the Office of Education. Because of the growing interest in high speed computing, institutions which have digital computers on campus are also indicated.

The information contained in this guide should be useful to high school students interested in studying mathematics in college or university, guidance personnel in counseling students, and mathematics educators in institutions of higher education in evaluating their own programs.

We wish to acknowledge the cooperation of the many individuals who assisted in the planning and preparation of this publication.

R. ORIN CORNETT
Acting Assistant Commissioner
for Higher Education

HAROLD A. HASWELL
Director
Higher Education Programs Branch

Guide to Undergraduate Programs in Mathematics

Purposes of the Study

In January of 1961 a questionnaire, titled *Survey of Mathematics Programs in Institutions Granting Bachelor and Higher Degrees*, was mailed to 1,013 colleges and universities and the branch campuses of multi-campus institutions which give bachelor's degrees in mathematics. A total of 864 institutions participated in the survey and the pertinent information about their programs is reported herein. The nonresponding institutions which were known to have conferred bachelor's degrees in recent years are given following the list of institutions participating in the survey.

This publication presents in tabular form for each institution facts which might be helpful to the prospective college student. Statistical and analytical studies of the data contained herein and of the other data of the complete survey are not given here, but will be made in the comprehensive report to be issued later by the Office of Education. Information on graduate degree programs in mathematics at individual institutions, also compiled by the author of this publication appeared in the December 1961 *Special Issue of the NOTICES, Assistantships and Fellowships in Mathematics in 1962–1963*, Vol. 8, No. 7, Part II, Issue No. 59, of the *American Mathematical Society*.

The principal purpose of this publication is to give information about mathematics programs. However, since students interested in programs are also often interested in career information, a selected bibliography on sources of such information is given on pages 23–25.

Explanation of Table and Symbols Used

An asterisk (*) in any column means that information relative to that item was not provided by the respondent.

Column 1

In this column is given the name and location of institution, by State.

Column 2

An "x" in this column means that the institution offers one or more of the following degree curriculums: Liberal arts curriculum in mathematics, general curriculum in mathematics, applied mathematics curriculum, engineering mathematics curriculum.

Column 3

An "x" in this column means that either a unique mathematics curriculum for teachers is offered, or it is possible for a student to take the regular mathematics curriculum and also to take at this institution a sufficient number of education courses to certify him for teaching.

Column 4

An "x" in this column means that this institution offers a bachelor's degree in statistics Institutions which offer concentrations in statistics, but no degrees, are not included.

Column 5

An "x" in this column means that this institution offers a bachelor's degree in actuarial science. Institutions which offer preparation for, but no degrees in, actuarial science are not included.

Column 6

A "1" in this column means that this institution had freshmen students enrolled in courses of a level preceding college algebra and trigonometry during the fall of 1960. A "2" in this column means that the lowest level of mathematics courses enrolling freshmen during the fall of 1960 was college algebra and trigonometry or courses of equivalent level. A "3" in this column means that analytic geometry, calculus, and courses of equivalent level or above represented the lowest level of mathematics courses enrolling freshmen at this institution during the fall of 1960.

Column 7

An entry in this column means that an admissions examination including mathematics as a part of it is required. The letter codes which indicate which examinations will satisfy this requirement are as follows: (Two or more letters in an entry usually means that any one of these examinations may be used in meeting the requirement).

a. College Entrance Examination Board Aptitude Examination
b. College Entrance Examination Board Achievement Examination
c. American College Testing program (ACT)
d. School and College Ability Test (SCAT)
e. Sequential Tests of Educational Progress (STEP)
f. Examination prepared by the institution itself
g. State examination (e.g., New York State Regents)
h. Other
i. An examination is required but the kind was not indicated

Column 8

An "x" in this column means that a program of advanced standing in mathematics is offered but that no credit on the student's college record is entered for the courses that the student is permitted to skip. A "cr" in this column indicates that credit may be entered on the student's college record for courses skipped.

Column 9

An "x" in this column means that a special program, such as an honors program, is offered at this institution for superior undergraduate mathematics students.

Column 10

An "x" in this column means that at least one college-level course in mathematics is a requirement for *every* student who graduates from this institution.

Column 11

An "x" in this column means that there is a digital computer in operation on campus. Hence, it is highly probable that training in the use and application of digital computers is available at this institution. For the make and model number of each computer on each campus, see "Computing in the University," in the May 1962 issue of *Datamation*, p. 27–30, or the *Special Issue of the NOTICES* referred to earlier.

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961

Name and location of institution, by State	Degree curriculum in mathematics				Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
Alabama										
Alabama College, Montevallo	x	x	----	----	1	c	x	x		
Auburn University, Auburn	x	x	----	----	1	----------	cr	----	----	x
Birmingham Southern College, Birmingham	x	x	----	----	2	----------	x	----	----	
Florence State College, Florence	x	x	----	----	1	f	----	----	----	
Howard College, Birmingham	x	x	----	----	1	a,c	x	x	----	
Huntingdon College, Montgomery	x	x	----	----	1	----------	----	----	----	
Livingston State College, Livingston	----	x	----	----	1	f,b	----	----	----	
St. Bernard College, St. Bernard	x	x	----	----	2	a,c,	----	----	x	
Spring Hill College, Mobile	x	x	----	----	2	a,b,c,d	x	----	x	
Talladega College, Talladega	x	x	----	----	1	----------	x	x	x	
Troy State College, Troy	x	x	----	----	1	----------	x	x	x	
Tuskegee Institute, Tuskegee Institute	----	x	----	----	1	d	----	----	x	
University of Alabama, University	x	x	x	----	1	i	x	----	----	x
Alaska										
University of Alaska, College	x	x	----	----	1	c	cr	----	----	
Arizona										
Arizona State College, Flagstaff	x	x	----	----	1	----------	x	----	x	
Arizona State University, Tempe	x	x	----	----	1	----------	cr	----	x	x
Grand Canyon College, Phoenix	x	x	----	----	1	f	cr	----	----	
University of Arizona, Tucson	x	x	----	x	1	----------	cr	x	----	x
Arkansas										
Agricultural, Mechanical, and Normal College, Pine Bluff	x	x	----	----	1	h	x	x	x	
Arkansas College, Batesville	x	x	----	----	2	a	x	----	x	
Arkansas Polytechnic College, Russellville	x	x	----	----	1	h	cr	----	----	
Arkansas State College, State College	x	x	----	----	1	----------	----	----	x	
Arkansas State Teachers College, Conway	x	x	----	----	1	----------	x	x	x	
Harding College, Searcy	x	x	----	----	1	d,e,h	----	x	x	
Henderson State Teachers College, Arkadelphia	x	x	----	----	1	----------	----	----	----	
Hendrix College, Conway	x	x	----	----	1	i	x	x	----	
John Brown University, Siloam Springs	----	x	----	----	1	----------	----	----	x	
Little Rock University, Little Rock	x	x	----	----	1	d,e	----	----	----	
Ouachita Baptist College, Arkadelphia	x	x	----	----	1	d,e	cr	x	x	
Southern State College, Magnolia	x	x	----	----	1	----------	cr	----	x	
University of Arkansas, Fayetteville	x	x	----	----	1	----------	x	x	----	x
California										
California Institute of Technology, Pasadena	x	----	----	----	3	a,b	cr	*	x	x
California State Polytechnic College, Kellogg-Voorhis Campus, Pomona	x	x	----	----	1	h	x	----	x	
California State Polytechnic College, San Louis Obispo	x	x	----	----	1	----------	cr	----	x	x
California Western University, San Diego	x	x	----	----	1	a,b	x	----	----	
Chapman College, Orange	x	----	----	----	1	a	----	----	----	
Chico State College, Chico	x	x	----	----	1	----------	cr	----	----	x
College of the Holy Names, Oakland	x	x	----	----	1	a	----	x	----	
College of Notre Dame, Belmont	x	x	----	----	2	a	cr	----	----	
Dominican College of San Rafael, San Rafael	x	x	----	----	2	a	----	----	----	
Fresno State College, Fresno	x	x	----	----	1	h	x	----	----	
Harvey Mudd College, Claremont	x	----	----	----	3	a,b	cr	x	x	x
Humboldt State College, Arcata	x	x	----	----	1	d	----	----	----	
Immaculate Heart College, Los Angeles	x	x	----	----	1	a	x	----	----	
Los Angeles Pacific College, Los Angeles	x	----	----	----	1	----------	----	----	----	
Los Angeles State College, Los Angeles	x	x	----	----	2	c	----	----	----	x

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Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathematics: Liberal arts or general, applied, engineering	Degree curriculum in mathematics: Teaching or provision for teaching	Degree curriculum in mathematics: Statistics	Degree curriculum in mathematics: Actuarial science	Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
1	2	3	4	5	6	7	8	9	10	11
California—Continued										
Loyola University of Los Angeles, Los Angeles	x	x			2		x			
Mount St. Mary's College, Los Angeles	x	x			2	a	x			
Occidental College, Los Angeles	x	x			2	a	x			
Orange County State College, Fullerton	x	x			(1)	h				
Pasadena College, Pasadena	x	x			1					
Pepperdine College, Los Angeles	x	x			1	f				
Pomona College, Claremont	x				2	a		x		x
Sacramento State College, Sacramento	x	x			1		x	x	x	x
St. Mary's College of California, St. Mary's College	x	x			1	a			x	
San Diego College for Women, San Diego	x				1	a				
San Diego State College, San Diego	x	x			1	f	cr	x		x
San Fernando Valley State College, Northridge	x	x			2	f		x		
San Francisco College for Women, San Francisco	x	x			2	a,f				
San Jose State College, San Jose	x	x			1	c				x
Stanford University, Palo Alto	x	x	x		2	a	cr	x		x
Stanislaus State College, Turlock	x	x			(2)				x	
University of California, Berkeley	x	x	x		2	a	cr	x		x
University of California, Davis	x	x			1	i	x	x		x
University of California, Los Angeles	x	x			2	a	cr	x		x
University of California, Riverside	x	x			1		cr	x		x
University of California, Santa Barbara	x	x			1	a				
University of San Francisco, San Francisco	x	x			1	a,b	x			
University of Santa Clara, Santa Clara	x	x			2	a,b	x	x		
University of Southern California, Los Angeles	x	x			1	a	x			x
Whittier College, Whittier	x	x			1	a	x			
Colorado										
Adams State College, Alamosa	x	x			1		cr			
Colorado College, Colorado Springs	x	x			3	a,b,f	cr			
Colorado State University, Fort Collins		x	x		1	a	x	x		x
Loretto Heights College, Loretto	x	x			2	a				
Regis College, Denver	x	x			1	c,f	x			
University of Colorado, Boulder	x	x			2	a,b	cr	x		x
University of Denver, Denver	x	x			1	a,f	x			x
Western State College of Colorado, Gunnison	x	x			1	f				
Connecticut										
Albertus Magnus College, New Haven	x	x			2	a	x			
Annhurst College, South Woodstock	x	x			2	a	x			
Central Connecticut State College, New Britain	x	x			1	a	cr		x	
Connecticut College, New London	x	x			3	a	cr			
Fairfield University, Fairfield	x	x			2	a,b	cr			
Trinity College, Hartford	x	x			2	a	cr		x	
University of Bridgeport, Bridgeport	x	x			1	f				
University of Connecticut, Storrs	x	x			1		cr		x	
Wesleyan University, Middletown	x	x			3	a	cr	x		x
Yale University, New Haven	x	x			3	a,b	cr	x		x
Delaware										
Delaware State College, Dover	x	x			2	b				
University of Delaware, Newark	x	x			1	f,h [3]	x	x		x
District of Columbia										
American University	x	x	x		1	a,b	x	x		x
Catholic University of America	x	x			1	a	x			

See footnotes at end of table.

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con

Name and location of institution, by State	Degree curriculum in mathematics				Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
District of Columbia—Continued										
District of Columbia Teachers College	----	x	----	----	1	f	----	----	x	
Dunbarton College of Holy Cross	x	x	----	----	2	a	x	----	----	
Gallaudet College	x	----	----	----	2	f	----	----	----	
George Washington University	x	x	x	----	2	a, b	x	x	----	x
Georgetown University	x	----	----	----	2	a, b	cr	----	----	x
Howard University	x	x	----	----	1	----------	x	x	----	
Trinity College	x	x	----	----	3	a, b	x	----	----	
Florida										
Barry College, Miami	x	x	----	----	2	a, b	----	x	----	
Florida Agricultural and Mechanical University, Tallahassee	x	x	----	----	2	g	----	----	x	
Florida State University, Tallahassee	x	x	x	----	1	g	cr	x	x	x
Stetson University, De Land	x	x	----	----	1	a	x	----	----	
University of Florida, Gainesville	x	x	----	----	1	g	cr	----	x	x
University of Miami, Coral Gables	x	x	----	----	1	----------	x	x	----	
University of Tampa, Tampa	x	x	----	----	1	----------	----	----	----	
Georgia										
Agnes Scott College, Decatur	x	x	----	----	2	a, b	x	x	----	
Berry College, Mount Berry	x	x	----	----	1	a	----	----	x	
Emory University, Atlanta	x	x	----	----	1	a, b, f	cr	----	x	
Georgia Institute of Technology, Atlanta	x	----	----	----	1	a, b	cr	x	x	x
Mercer University, Macon	x	x	----	----	1	a	----	----	x	
Morehouse College, Atlanta	x	x	----	----	2	a, b, f	x	x	x	
Morris Brown College, Atlanta	x	x	----	----	1	----------	cr	----	----	
North Georgia College, Dahlonega	x	----	----	----	1	b	cr	x	x	
Paine College, Augusta	x	x	----	----	1	f	cr	----	----	
Piedmont College, Demorest	x	x	----	----	2	a	----	----	x	
Savannah State College, Savannah	x	x	----	----	1	a, g, f	cr	----	x	
Shorter College, Rome	x	x	----	----	1	a, b	cr	x	----	
Spelman College, Atlanta	x	x	----	----	2	----------	----	----	x	
Tift College, Forsyth	x	x	----	----	1	a, b	----	----	----	
University of Georgia, Athens	x	x	----	----	1	----------	cr	x	----	x
Valdosta State College, Valdosta	x	x	----	----	1	a	----	----	x	
Wesleyan College, Macon	x	x	----	----	1	a, h	x	x	x	
West Georgia College, Carrollton	x	x	----	----	1	a, b	x	----	x	
The Woman's College of Georgia, Milledgeville	x	x	----	----	1	i	----	----	----	
Hawaii										
Chaminade College, Honolulu	x	x	----	----	2	i	----	----	x	
Jackson College, Honolulu	x	x	----	----	1	----------	----	----	----	
University of Hawaii, Honolulu	x	x	----	----	1	----------	x	----	----	x
Idaho										
College of Idaho, Caldwell	x	x	----	----	1	d, c, f	x	x	----	
Idaho State College, Pocatello	x	x	----	----	1	----------	cr	x	----	
University of Idaho, Moscow	x	x	----	----	1	----------	cr	x	----	
Illinois										
Augustana College, Rock Island	x	x	----	----	1	a	cr	----	----	
Aurora College, Aurora	x	x	----	----	1	a, b, f	cr	----	----	
Blackburn College, Carlinville	x	x	----	----	1	----------	x	----	----	
Bradley University, Peoria	x	x	----	----	1	a, b, f	x	----	----	
Carthage College, Carthage	x	x	----	----	1	a, f	x	----	x	

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathematics: Liberal arts or general, applied, engineering	Degree curriculum in mathematics: Teaching or provision for teaching	Degree curriculum in mathematics: Statistics	Degree curriculum in mathematics: Actuarial science	Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
1	2	3	4	5	6	7	8	9	10	11
Illinois—Continued										
College of St. Francis, Joliet	x	x			1	c			x	
DePaul University, Chicago	x	x			1	a, b	cr	x	x	
Eastern Illinois University, Charleston	x	x			2	d				
Elmhurst College, Elmhurst	x	x			2	a	cr			
Eureka College, Eureka	x	x			1	c	cr	x	x	
Greenville College, Greenville	x	x			1		x	x		x
Illinois Institute of Technology, Chicago	x	x			1	a, b, f	cr		x	
Illinois State Normal University, Normal		x			1	f, h [4]	x	x		
Illinois Wesleyan University, Bloomington	x	x			2	b				
Knox College, Galesburg	x	x			2	a	cr	x		
Lake Forest College, Lake Forest	x	x			2		x	x		
Loyola University, Chicago	x	x			2	f [5]	cr	x		
MacMurray College, Jacksonville	x	x			2		x			
Millikin University, Decatur	x	x			2	a	cr			
Monmouth College, Monmouth	x	x			2	a				
Mundelein College, Chicago	x	x			1	a	cr	x		
North Central College, Naperville	x	x			2	a	x			
Northern Illinois University, De Kalb	x	x			1	i	cr		x	
Northwestern University, Evanston	x	x			2		cr			x
Olivet Nazarene College, Kankakee	x	x			1	h	x	x		
Principia College, Elsah	x	x			1	a	x		x	
Quincy College, Quincy	x	x			1	a, c	cr			
Rosary College, River Forest	x	x			1	a, b	cr	x		
St. Procopius College, Lisle	x	x			2	c	cr		x	
St. Xavier College, Chicago	x	x			2	a, b, f	cr	x	x	
Shimer College, Mount Carroll	x	x			1	a	cr		x	
Southern Illinois University, Carbondale	x	x			1	c	cr	x		x
Southern Illinois University, East St. Louis	x	x			1	f		x	x	
University of Chicago, Chicago	x	x	x		2	a	cr	x	x	x
University of Illinois, Urbana	x	x	x	x	1		cr	x		x
Western Illinois University, Macomb	x	x			1	d	x			
Wheaton College, Wheaton	x	x			2	a	cr			
Indiana										
Anderson College, Anderson	x	x			1		x	x		
Ball State Teachers College, Muncie		x			1		x			
Butler University, Indianapolis	x	x			1	a	x	x		
DePauw University, Greencastle	x	x			2	b	cr	x		
Earlham College, Richmond	x	x			1	a	cr			
Evansville College, Evansville	x	x			1	f	x			
Franklin College, Franklin	x	x			2	a	x	x	x	
Goshen College, Goshen	x	x			1	b		x		
Grace College, Winona Lake	x	x			2					
Huntington College, Huntington	x	x			1	d	x			
Indiana Central College, Indianapolis	x	x			2		x			
Indiana State College, Terre Haute	x	x			1		x		x	
Indiana Technical College, Fort Wayne	x	x			1	h	cr		x	
Indiana University, Bloomington	x	x			2	f	cr	x		x
Manchester College, North Manchester	x	x			1		cr	x	x	
Marian College, Indianapolis	x	x			2	a	x	x		
Marion College, Marion	x	x			1	f	x			
Oakland City College, Oakland City	x	x			1					
Purdue University, Lafayette	x	x	x		1		cr		x	x
Rose Polytechnic Institute, Terre Haute	x				3	a	x	x	x	x
Saint Francis College, Fort Wayne	x	x			2					
St. Joseph's College, Rensselaer	x	x			2	a	cr		x	
St. Mary-of-the-Woods College, St. Mary-of-the-Woods	x	x			2	a	x		x	
St. Mary's College, Notre Dame	x	x			1	a	x		x	

See footnotes at end of table.

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathematics				Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
Idiana—Continued										
Taylor University, Upland	x	x	----	----	1	a, b	x	----	----	
Tri-State College, Angola	x	----	----	----	1	d	x	----	x	
University of Notre Dame, Notre Dame	x	x	----	----	2	a, b	x	x	x	x
Valparaiso University, Valparaiso	x	x	----	----	1	a	x	x	----	x
Iowa										
Buena Vista College, Storm Lake	x	x	----	----	1	f	cr	x	----	
Central College, Pella	x	x	----	----	2	a	----	----	----	
Clarke College, Dubuque	x	x	----	----	2	a	cr	x	----	
Coe College, Cedar Rapids	x	x	----	----	1	a	x	x	----	
Cornell College, Mount Vernon	x	x	----	----	2	a	cr	x	----	
Drake University, Des Moines	x	x	----	x	1	----------	cr	----	----	
Grinnell College, Grinnell	x	x	----	----	2	a, b	cr	x	----	
Iowa State University, Ames	x	x	x	----	1	----------	cr	x	----	x
Iowa Wesleyan College, Mount Pleasant	x	x	----	----	1	----------	----	----	----	
Loras College, Dubuque	x	x	----	----	2	a, c	cr	----	----	
Luther College, Decorah	x	x	----	----	1	c	----	----	----	
Marycrest College, Davenport	x	x	----	----	2	a, c, f	x	----	----	
Morningside College, Sioux City	x	x	----	----	1	----------	----	----	----	
St. Ambrose College, Davenport	x	x	----	----	1	----------	----	----	----	
Simpson College, Indianola	x	x	----	----	2	c	x	----	----	
State College of Iowa, Cedar Falls	----	x	----	----	1	c	cr	----	x	
State University of Iowa, Iowa City	x	x	----	----	1	f	x	x	----	x
University of Dubuque, Dubuque	x	x	----	----	1	d, c	cr	----	x	
Upper Iowa University, Fayette	x	x	----	----	1	----------	----	x	----	
Wartburg College, Waverly	x	x	----	----	1	----------	x	----	----	
Westmar College, Le Mars	x	x	----	----	1	d, e	x	----	----	
William Penn College, Oskaloosa	x	x	----	----	1	c	cr	----	----	
Kansas										
Baker University, Baldwin City	x	x	----	----	2	----------	cr	----	----	
Bethany College, Lindsborg	x	x	----	----	1	i	cr	----	----	
Bethel College, North Newton	x	x	----	----	1	c	cr	x	----	
College of Emporia, Emporia	x	x	----	----	1	a	cr	x	x	
Fort Hays Kansas State College, Hays	x	x	----	----	1	d	cr	----	----	
Kansas State Teachers College, Emporia	x	x	----	----	1	f	x	----	x	
Kansas State University, Manhattan	x	x	x	----	1	----------	cr	x	----	x
Kansas Wesleyan University, Salina	x	x	----	----	2	e	x	x	x	
Marymount College, Salina	x	x	----	----	2	----------	----	----	x	
Mount St. Scholastica College, Atchison	x	x	----	----	2	a [6]	x	----	----	
Ottawa University, Ottawa	x	x	----	----	2	d, e	----	x	----	
St Benedict's College, Atchison	x	x	----	----	1	b	cr	----	x	
St. Mary College, Xavier	x	x	----	----	2	a	x	----	x	
St. Mary of the Plains College, Dodge City	x	x	----	----	1	----------	----	----	----	
Southwestern College, Winfield	x	x	----	----	1	----------	x	x	----	
Sterling College, Sterling	x	x	----	----	1	----------	x	x	----	
Tabor College, Hillsboro	x	----	----	----	1	----------	----	----	----	
University of Kansas, Lawrence	x	x	----	----	1	----------	cr	x	----	x
University of Wichita, Wichita	x	x	----	----	1	c	cr	----	----	x
Washburn University, Topeka	x	x	----	----	1	----------	x	----	----	
Kentucky										
Asbury College, Wilmore	x	x	----	----	1	----------	----	----	----	
Bellarmine College, Louisville	x	x	----	----	1	f	cr	----	----	
Berea College, Berea	x	x	----	----	1	f, g	cr	x	----	
Brescia College, Owensboro	x	x	----	----	1	h	cr	----	----	

See footnotes at end of table.

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathematics: Liberal arts or general, applied, engineering	Degree curriculum in mathematics: Teaching or provision for teaching	Degree curriculum in mathematics: Statistics	Degree curriculum in mathematics: Actuarial science	Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
1	2	3	4	5	6	7	8	9	10	11
Kentucky—Continued										
Eastern Kentucky State College, Richmond	x	x			1					
Georgetown College, Georgetown	x	x			1	d	cr			
Kentucky Wesleyan College, Owensboro	x	x			2					
Morehead State College, Morehead	x	x			1	h		x		
Murray State College, Murray	x	x			2					
Nazareth College, Louisville	x	x			2	a	cr			
Pikeville College, Pikeville	x	x			1	g			x	
Union College, Barbourville	x	x			1		cr			
University of Kentucky, Lexington	x	x			1	f, h	cr	x		x
University of Louisville, Louisville	x	x			1	h	x			x
Ursuline College, Louisville	x	x			2	a, c	cr			
Villa Madonna College, Covington	x	x			2	d, e				
Western Kentucky State College, Bowling Green	x	x			2					
Louisiana										
Francis T. Nicholls State College, Thibodaux	x	x			2				x	
Louisiana Polytechnic Institute, Ruston	x	x			1		cr			x
Loyola University, New Orleans	x	x			2	a	cr		x	
McNeese State College, Lake Charles	x	x			2				x	
Newcomb College of Tulane University, New Orleans	x	x			2	a	cr	x		
Northeast Louisiana State College, Monroe	x	x			1	f	x		x	
Northwestern State College, Natchitoches	x	x			1				x	
St. Mary's Dominican College, New Orleans	x	x			2	a			x	
Southern University, Baton Rouge	x	x			1		x		x	
Tulane University, New Orleans	x	x			3	a	cr	x		x
Xavier University, New Orleans	x	x			2					
Maine										
Bates College, Lewiston	x	x			2	a, b	x			
Bowdoin College, Brunswick	x	x			3	a	cr	x		
Colby College, Waterville	x	x			2	a	cr			
Gorham State Teachers College, Gorham		x			1	d [7]	x			
Nasson College, Springvale	x	x			1		x	x		
St. Francis College, Biddeford	x	x			2	a			x	
St. Joseph's College, North Windham	x	x			1	a, f				
University of Maine, Orono	x	x			2	a, b	cr			
Maryland										
College of Notre Dame, Baltimore	x	x			2	a				
Columbia Union College, Takoma Park	x	x			2					
Goucher College, Towson	x	x			2	a	cr	x		
Hood College, Frederick	x	x			2	a	cr	x		
Johns Hopkins University, Baltimore	x	x			2	a	cr	x		x
Morgan State College, Baltimore	x	x			1		cr	x		
Mount Saint Agnes College, Baltimore	x	x			2	a	x		x	
Mount St. Mary's College, Emmitsburg		x			2	a, b				
St. John's College, Annapolis	x				1	a, b			x	
St. Joseph College, Emmitsburg	x	x			2	a	x			
State Teachers College, Frostburg	x	x			2		x		x	
State Teachers College, Salisbury	x	x			1				x	
University of Maryland, College Park	x	x	x		1		x	x		x
Washington College, Chestertown	x	x			3	a	cr			
Western Maryland College, Westminster	x	x			1		x	x		

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Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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1	2	3	4	5	6	7	8	9	10	11
Massachusetts										
American International College, Springfield	x	x	----	----	1	i	x	----	x	
Anna Maria College for Women, Paxton	x	x	----	----	2	a	x	----	----	
Atlantic Union College, South Lancaster	x	x	----	----	2	----------	x	----	----	
Boston College, Chestnut Hill	x	x	----	----	2	a, b	cr	x	----	
Boston University, Boston	x	x	----	----	3	a, b	cr	x	----	x
Bradford Durfee College of Technology, Fall River	x	----	----	----	2	a	----	----	----	
Brandeis University, Waltham	x	x	----	----	2	a, b	x	x	----	
Clark University, Worcester	x	x	----	----	2	a, b	x	x	----	
College of the Holy Cross, Worcester	x	x	----	----	3	a, b	cr	x	----	
College of Our Lady of the Elms, Chicopee	x	x	----	----	2	a	x	----	----	
Eastern Nazarene College, Wollaston	x	x	----	----	1	a	cr	----	----	
Emmanuel College, Boston	x	x	----	----	2	a	x	----	----	
Harvard University, Cambridge	x	x	----	----	3	a, b	cr	x	----	x
Lowell Technological Institute, Lowell	x	----	----	----	3	a, b, f	----	----	x	x
Massachusetts Institute of Technology, Cambridge	x	----	----	----	3	a, b	cr	x	x	x
Merrimack College, North Andover	x	x	----	----	1	a	----	----	x	
Mount Holyoke College, South Hadley	x	x	----	----	3	a, b	cr	x	----	
Newton College of the Sacred Heart, Newton	x	x	----	----	2	a	----	----	----	
Northeastern University, Boston	x	x	----	----	2	a, b	----	x	----	x
Radcliffe College, Cambridge	x	x	----	----	3	a, b	cr	x	----	
Regis College, Weston	x	x	----	----	3	a, b	----	----	----	
Simmons College, Boston	x	x	----	----	2	a, f	x	x	----	
Smith College, Northampton	x	x	----	----	2	a, b [8]	x	x	----	
State College at Boston, Boston	----	x	----	----	2	a	----	----	----	
Stonehill College, North Easton	x	x	----	----	2	a, b	x	----	x	
Suffolk University, Boston	x	x	----	----	1	----------	----	----	----	
Tufts University, Medford	x	x	----	----	3	a, b	cr	----	----	
University of Massachusetts, Amherst	x	x	----	----	1	a, b, f	cr	x	----	x
Wellesley College, Wellesley	x	x	----	----	3	a	cr	x	----	
Wheaton College, Norton	x	x	----	----	3	a	x	x	----	
Williams College, Williamstown	x	----	----	----	3	a	cr	x	----	
Worcester Polytechnic Institute, Worcester	x	----	----	----	3	a, b [9]	x	x	x	x
Michigan										
Albion College, Albion	x	x	----	----	2	b	x	x	----	
Alma College, Alma	x	x	----	----	1	----------	x	----	----	
Andrews University, Berrien Springs	x	x	----	----	2	----------	----	----	----	
Aquinas College, Grand Rapids	x	x	----	----	2	h	x	x	----	
Calvin College, Grand Rapids	x	x	----	----	1	a	----	----	----	
Central Michigan University, Mount Pleasant	x	x	----	----	1	----------	----	----	----	
Detroit Institute of Technology, Detroit	x	----	----	----	1	i	----	----	----	
Eastern Michigan University, Ypsilanti	x	x	----	----	1	(*)	cr	----	----	
General Motors Institute, Flint	x	----	----	----	2	h	cr	----	x	x
Hillsdale College, Hillsdale	x	x	----	----	2	----------	x	x	----	
Hope College, Holland	x	x	----	----	1	a	x	x	----	
Kalamazoo College, Kalamazoo	x	x	----	----	3	a	x	----	----	
Madonna College, Livonia	x	x	----	----	1	----------	cr	----	----	
Marygrove College, Detroit	x	x	----	----	2	----------	x	----	----	
Michigan College of Mining and Technology, Houghton	x	----	----	----	1	a, f	cr	----	x	x
Michigan State University, East Lansing	x	x	x	----	1	f	cr	x	----	x
Michigan State University Oakland, Rochester	x	x	----	----	2	h	----	----	x	
Nazareth College, Kalamazoo	x	x	----	----	1	----------	cr	----	x	
Northern Michigan College, Marquette	x	x	----	----	1	----------	----	----	----	
Olivet College, Olivet	x	x	----	----	2	----------	x	x	----	
Siena Heights College, Adrian	x	x	----	----	2	----------	x	----	----	
University of Detroit, Detroit	x	x	----	----	1	h	cr	----	----	x
The University of Michigan, Ann Arbor	x	x	x	x	1	a, b	cr	x	----	x
University of Michigan, College at Flint	x	x	----	----	----	d [10]	----	----	----	

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Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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1	2	3	4	5	6	7	8	9	10	11
Michigan—Continued										
Wayne State University, Detroit	x	x			2	f	cr	x		x
Western Michigan University, Kalamazoo	x	x			1		x			
Minnesota										
Augsburg College, Minneapolis	x	x			2		cr			
Carleton College, Northfield	x	x			2	a, b	cr	x	x	x
College of St. Benedict, St. Joseph	x	x			1	e				
College of St. Catherine, St. Paul	x	x			1	a	x			
College of St. Scholastica, Duluth	x	x			2	c	cr	x		
College of St. Teresa, Winona	x	x			1	a, b	x			
College of St. Thomas, St. Paul	x	x			1	f	cr			
Concordia College, Moorhead	x	x			1		x	x		
Gustavus Adolphus College, St. Peter	x	x			2	a, g	x			
Hamline University, St. Paul	x	x			1	c	cr	x		
Macalester College, St. Paul	x	x			1	c	cr	x		
Mankato State College, Mankato	x	x			1	c	cr			
Moorhead State College, Moorhead	x	x			1	c	x			
St. Cloud State College, St. Cloud	x	x			1	a	cr		x	
St. John's University, Collegeville	x	x			1	f	cr	x		
St. Mary's College, Winona	x	x			2	c	cr		x	
St. Olaf College, Northfield	x	x			1	a	cr	x		x
University of Minnesota, College of LSA, Minneapolis	x	x			1		cr	x		x
University of Minnesota, Institute of Technology, Minneapolis	x	x			1	f	cr	x		x
University of Minnesota, Duluth	x	x			1	c	cr			
Winona State College, Winona		x			1	c, h				
Mississippi										
Blue Mountain College, Blue Mountain	x	x			1		x			
Delta State College, Cleveland	x	x			1				x	
Mississippi College, Clinton	x	x			2		x			
Mississippi Southern College, Hattiesburg	x	x			1		cr		x	x
Mississippi State University, State College	x	x			1	f	cr	x		x
Rust College, Holly Springs	x	x			1	f			x	
Tougaloo Southern Christian College, Tougaloo	x	x			1	a			x	
University of Mississippi, University	x	x			2	f		x		x
Missouri										
Central Methodist College, Fayette	x	x			1			x	x	
Central Missouri State College, Warrensburg	x	x			1	e	x	x		
College of St. Teresa, Kansas City	x	x			2	h				
Culver-Stockton College, Canton	x	x			2		x	x		
Evangel College, Springfield	x	x			1		cr			
Fontbonne College, St. Louis	x	x			2				x	
Lincoln University, Jefferson City	x	x			1					x
Northeast Missouri State Teachers College, Kirksville	x	x			1		x			
Rockhurst College, Kansas City	x	x			1	f	cr		x	
St. Louis University, St. Louis	x	x	x		1	f	x	x		x
Southeast Missouri State College, Cape Girardeau	x	x			1		x			
Southwest Missouri State College, Springfield	x	x			1		x	x	x	
Tarkio College, Tarkio		x			2					
University of Kansas City, Kansas City	x	x			2		x			
University of Missouri, Columbia	x	x	x		1		cr	x		x
Washington University, St. Louis	x	x			1	a	cr	x		x
Webster College, Webster Groves	x	x			2		cr			
William Jewell College, Liberty	x	x			1		x	x		

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
Montana										
Carroll College, Helena	x	x	----	----	1	a	----	----	----	
College of Great Falls, Great Falls	x	x	----	----	1	c	----	----	----	
Eastern Montana College of Education, Billings	----	x	----	----	1	h	cr	----	----	
Montana State College, Bozeman	x	x	x	----	1	----------	cr	----	----	x
Northern Montana College, Havre	----	x	----	----	1	----------	----	----	x	
Nebraska										
Concordia Teachers College, Seward	----	x	----	----	1	----------	----	----	x	
Creighton University, Omaha	x	x	----	----	2	c	x	x	----	
Dana College, Blair	x	x	----	----	1	f, h	cr	x	x	
Doane College, Crete	x	x	----	----	2	a, f	cr	----	----	
Duchesne College, Omaha	x	x	----	----	1	a, b, c, h	----	----	----	
Midland College, Fremont	x	x	----	----	1	c	cr	----	----	
Municipal University of Omaha, Omaha	x	x	----	----	1	----------	----	----	----	
Nebraska State Teachers College, Chadron	x	x	----	----	1	f	----	----	x	
Nebraska State Teachers College, Kearney	x	x	----	----	1	f	x	x	x	
Nebraska State Teachers College, Peru	x	x	----	----	1	c	----	----	x	
Nebraska State Teachers College, Wayne	x	x	----	----	1	----------	----	x	----	
Nebraska Wesleyan University, Lincoln	x	x	----	----	2	----------	x	----	----	
Union College, Lincoln	x	x	----	----	2	----------	cr	----	----	
University of Nebraska, Lincoln	x	x	x	----	1	----------	cr	x	----	x
Nevada										
University of Nevada, Reno	x	x	----	----	1	a, c	----	----	----	
New Hampshire										
Dartmouth College, Hanover	x	x	----	----	3	a, b	cr	x	----	x
Keene Teachers College, Keene	----	x	----	----	1	c	----	----	----	
Rivier College, Nashua	x	x	----	----	2	----------	----	----	x	
St. Anselm's College, Manchester	x	x	----	----	1	c	x	----	----	
University of New Hampshire, Durham	x	x	----	----	2	a	cr	----	----	x
New Jersey										
Bloomfield College, Bloomfield	x	x	----	----	2	f	x	----	x	
Caldwell College for Women, Caldwell	x	x	----	----	1	a	x	----	----	
College of St. Elizabeth, Convent Station	x	x	----	----	2	a, b	----	x	----	
Drew University, Madison	x	----	----	----	2	a	----	x	----	
Fairleigh Dickinson University, Rutherford	x	x	----	----	2	a, b	----	----	----	
Georgian Court College, Lakewood	x	x	----	----	3	a	x	----	x	
Glassboro State College, Glassboro	----	x	----	----	1	a, b, f, h	----	----	----	
Jersey City State College, Jersey City	----	x	----	----	2	a, e	----	----	x	
Monmouth College, West Long Branch	x	x	----	----	1	f	----	----	x	
Montclair State College, Upper Montclair	----	x	----	----	3	a, f	----	x	x	
Newark State College, Union	----	x	----	----	1	a, f	----	----	x	
Paterson State College, Wayne	----	x	----	----	1	a, b, f	x	----	x	
Princeton University, Princeton	x	----	----	----	3	a, b	cr	x	----	x
Rutgers, The State University, New Brunswick	x	x	x	----	2	a	cr	x	----	x
Douglass College of Rutgers, New Brunswick	x	x	----	----	2	a	cr	----	----	
Newark Colleges of Rutgers, Newark	x	x	----	----	2	a	----	x	----	
University College of Rutgers, New Brunswick	x	----	----	----	1	----------	cr	x	x	
St. Peter's College, Jersey City	x	x	----	----	3	a, b	cr	----	x	
Seton Hall University, South Orange	x	x	----	----	1	a, b, f	----	x	----	
Stevens Institute of Technology, Hoboken	x	----	----	----	3	a, b	x	----	x	x
Trenton State College, Trenton	----	x	----	----	2	a, b, f	x	----	x	

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
New Mexico										
Eastern New Mexico University, Portales	x	x	----	----	1	----------	cr	----	----	
New Mexico Highlands University, Las Vegas	x	x	----	----	1	----------	cr	----	----	
New Mexico Institute of Mining and Technology, Socorro	x	----	----	----	1	h	----	----	x	
New Mexico State University, University Park	x	x	----	----	1	----------	cr	x	x	x
New Mexico Western College, Silver City	x	x	----	----	1	----------	----	----	----	
University of New Mexico, Albuquerque	x	x	----	----	1	i	cr	x	----	x
New York										
Adelphi College, Garden City	x	x	----	----	2	a, b	x	----	----	
Alfred University, Alfred	x	x	----	----	2	b, f	cr	x	----	
Brooklyn College, Brooklyn	x	x	----	----	1	----------	cr	x	x	
Canisius College, Buffalo	x	x	----	----	1	a, b	cr	----	x	
City College, New York	x	x	x	----	1	a, g	cr	x	x	x
Clarkson College of Technology, Potsdam	x	----	----	----	2	a, g	x	----	x	x
Colgate University, Hamilton	x	x	----	----	3	a, g	x	x	----	
College of Mount St. Vincent, New York	x	x	----	----	3	a, g	----	----	x	
The College of Saint Rose, Albany	x	x	----	----	2	a, b, g	cr	x	----	
Columbia University, Columbia College, New York	x	x	x	----	2	a, b, g	cr	x	----	x
Columbia University, Barnard College, New York	x	x	----	----	2	a, b	x	----	----	
Cornell University, Ithaca	x	x	----	----	2	a, g	cr	x	----	x
D'Youville College, Buffalo	x	x	----	----	2	b	----	----	----	
Elmira College, Elmira	x	x	----	----	2	a	cr	x	----	
Fordham University, New York	x	x	----	----	2	a	x	x	----	x
Good Counsel College, White Plains	x	x	----	----	2	a, b	----	----	----	
Hamilton College, Clinton	x	x	----	----	2	a	cr	----	----	
Hartwick College, Oneonta	x	x	----	----	2	h	cr	----	----	
Hobart and William Smith Colleges, Geneva	x	x	----	----	1	a, b	x	x	x	
Hofstra College, Hempstead	x	x	----	x	1	b	x	x	----	
Hunter College, New York	x	x	----	----	1	a, g	cr	----	x	
Iona College, New Rochelle	x	x	----	----	1	a	cr	----	----	
Ithaca College, Ithaca	x	x	----	----	1	a, b	x	x	----	
The King's College, Briarcliff Manor	x	x	----	----	1	a	x	----	x	
Ladycliff College, Highland Falls	x	x	----	----	3	a, b	----	----	----	
LeMoyne College, Syracuse	x	x	----	----	1	a	----	----	----	
Manhattan College, New York	x	x	----	----	2	a, b	cr	----	x	
Marist College, Poughkeepsie	x	----	----	----	1	a	x	----	x	
Marymount College, Tarrytown	x	x	----	----	2	a, b	x	----	x	
Molloy Catholic College for Women, Rockville Centre	x	x	----	----	2	b	----	----	x	
Nazareth College, Rochester	x	x	----	----	2	a	x	----	----	
New York University, New York	x	x	x	----	2	a	cr	x	x	x
Niagara University, Niagara University	x	x	----	----	1	----------	----	----	x	
Polytechnic Institute of Brooklyn, Brooklyn	x	----	----	----	2	b	x	x	x	x
Pratt Institute, Brooklyn	x	x	----	----	2	a, b, g	----	----	----	x
Rensselaer Polytechnic Institute, Troy	x	----	----	----	3	a, b, g	cr	x	x	x
Roberts Wesleyan College, North Chili	x	x	----	----	1	i	x	----	----	
Rosary Hill College, Buffalo	x	x	----	----	1	a	cr	----	----	
Russell Sage College, Troy	x	x	----	----	2	a	x	----	----	
St. Bernardine of Siena College, Loudonville	x	x	----	----	2	a	----	----	x	
St. Bonaventure University, St. Bonaventure	x	x	----	----	2	a, f, g	x	----	----	
St. Francis College, Brooklyn	x	x	----	----	2	a	x	----	x	
St. John Fisher College, Inc., Rochester	x	x	----	----	2	g	x	----	----	
St. John's University, Jamaica	x	x	----	----	2	a, b	----	----	x	
St. Joseph's College for Women, Brooklyn	x	x	----	----	2	a, d, e, g	----	----	x	
St. Lawrence University, Canton	x	x	----	----	2	a, g	x	x	----	
Sarah Lawrence College, Bronxville	x	x	----	----	3	----------	x	x	----	
Skidmore College, Saratoga Springs	x	x	----	----	3	a, b	x	----	----	

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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1	2	3	4	5	6	7	8	9	10	11
New York—Continued										
State University of New York										
College of Education at Albany	----	x	----	----	2	g, h	cr	----	----	
College of Education at Brockport	----	x	----	----	1	g, h	----	----	x	
College of Education at Cortland	----	x	----	----	1	g, h	cr	----	x	
College of Education at Oneonta	----	x	----	----	1	f, g	cr	x	x	
College of Education at Oswego	----	x	----	----	1	h	----	----	x	
College of Education at Plattsburgh	----	x	----	----	1	f	x	x	x	
College of Education at Potsdam	----	x	----	----	2	h	x	----	----	
Harpur College, Binghamton	x	----	----	----	2	f	cr	x	x	
Long Island Center, Oyster Bay	x	x	----	----	3	d, g	cr	----	x	
Syracuse University, Syracuse	x	x	----	----	1	a	cr	----	x	x
Union College and University, Schenectady	x	x	----	----	2	a, b	cr	----	x	
University of Buffalo, Buffalo	x	x	----	----	1	----	cr	x	x	
University of Rochester, Rochester	x	x	----	----	2	a, f	cr	x	----	x
Vassar College, Poughkeepsie	x	x	----	----	2	a	cr	x	----	
Wagner College, Staten Island	x	x	----	----	1	a, b	x	----	----	
Wells College, Aurora	x	x	----	----	2	a, b, g [11]	x	----	----	
Yeshiva University, New York	x	x	----	----	2	a, b, f, g	cr	x	----	
North Carolina										
Appalachian State Teachers College, Boone	----	x	----	----	1	a, f	----	x	x	
Atlantic Christian College, Wilson	x	x	----	----	1	a	x	----	x	
Bennett College, Greensboro	x	x	----	----	2	f	cr	----	----	
Catawba College, Salisbury	x	x	----	----	1	----	----	----	x	
Davidson College, Davidson	x	x	----	----	2	a	x	----	x	
Duke University, Durham	x	x	----	----	2	a	cr	x	----	x
East Carolina College, Greenville	x	x	----	----	1	f	cr	x	x	
Elon College, Elon College	x	x	----	----	1	a	cr	----	----	
Lenoir-Rhyne College, Hickory	x	x	----	----	1	----	x	----	----	
Livingstone College, Salisbury	x	x	----	----	1	b, f	cr	----	x	
Meredith College, Raleigh	x	x	----	----	2	a, b	x	----	----	
Pembroke State College, Pembroke	x	x	----	----	2	----	----	----	x	
Pfeiffer College, Misenheimer	x	x	----	----	1	b, f	----	----	----	
Queens College, Charlotte	x	x	----	----	2	----	cr	x	----	
St. Andrews Presbyterian College, Laurinburg	x	x	----	----	2	a, b	x	x	x	
Salem College, Winston-Salem	x	x	----	----	2	a, b	----	----	----	
Shaw University, Raleigh	x	x	----	----	1	----	----	----	----	
University of North Carolina, Chapel Hill	x	x	----	----	2	a	cr	----	----	x
University of North Carolina, State College, Raleigh	x	x	x	----	2	a	cr	x	x	x
University of North Carolina, Woman's College, Greensboro	x	x	----	----	2	a	cr	x	----	
Wake Forest College, Winston-Salem	x	x	----	----	1	a	x	----	x	
Western Carolina College, Cullowhee	x	x	----	----	1	a	----	----	----	
North Dakota										
Jamestown College, Jamestown	x	x	----	----	1	c	----	----	----	
North Dakota State University, Fargo	x	x	----	----	1	b, f	cr	x	x	
State Teachers College, Dickinson	x	x	----	----	1	f	x	----	x	
State Teachers College, Mayville	----	x	----	----	1	c	----	----	----	
State Teachers College, Minot	x	x	----	----	1	----	----	----	x	
State Teachers College, Valley City	----	x	----	----	1	c	----	----	x	
University of North Dakota, Grand Forks	x	x	----	----	1	----	x	x	----	
Ohio										
Antioch College, Yellow Springs	x	x	----	----	2	a, f	cr	x	----	
Ashland College, Ashland	x	x	----	----	2	b	----	----	----	
Baldwin-Wallace College, Berea	x	x	----	----	2	----	x	----	----	

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Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

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1	2	3	4	5	6	7	8	9	10	11
Ohio—Continued										
Bowling Green State University, Bowling Green	x	x			1	f	cr	x		
Capital University, Columbus	x	x			1	c	cr	(*)		
Case Institute of Technology, Cleveland	x				3	a, b	cr		x	x
Central State College, Wilberforce	x	x			1	f	x	x	x	
College of Mount St. Joseph-on-the-Ohio, Mount St. Joseph	x	x			2	h			x	
College of St. Mary of the Springs, Columbus	x	x			2	c		x		
College of Steubenville, Steubenville	x	x			1	a, b, c				
College of Wooster, Wooster	x	x			1	i	cr			
The Defiance College, Defiance	x	x			1	a, d	cr		x	
Denison University, Granville	x	x			2	a, b	cr	x		
Fenn College, Cleveland	x				2	h		x	x	x
Findlay College, Findlay	x	x			1					
Heidelberg College, Tiffin	x	x			2	a	x			
John Carroll University, Cleveland	x	x			1	f	cr			x
Kent State University, Kent	x	x			1	c	cr	x		
Kenyon College, Gambier	x				2	a	cr	x		
Lake Erie College, Painesville	x	x			1	a	x			
Marietta College, Marietta	x	x			1	b	cr			
Mary Manse College, Toledo	x	x			2	f				
Mount Union College, Alliance	x	x			1	a, c		x		
Muskingum College, New Concord	x	x			2	a	cr	x		
Notre Dame College, Cleveland	x	x			2	c				
Oberlin College, Oberlin	x	x			2	a	cr	x		
Ohio Northern University, Ada	x	x			2	a, g	x		x	
The Ohio State University, Columbus	x	x	x		1	c	cr	x		x
Ohio University, Athens	x	x			2	f	cr	x		x
Ohio Wesleyan University, Delaware	x	x			3	a	cr			
Otterbein College, Westerville	x	x			1	a, f	cr			
Our Lady of Cincinnati College, Cincinnati	x	x			2	b, f	x			
Rio Grande College, Rio Grande	x	x			1					
The University of Akron, Akron	x	x			1	f	cr	x	x	
University of Cincinnati, Cincinnati	x	x			1	c	cr			x
University of Dayton, Dayton	x	x			1	c	cr			x
University of Toledo, Toledo	x	x			1		x			
Western College for Women, Oxford	x	x			1	f	cr	x		
Western Reserve University, Cleveland	x	x			1		x	x		x
Wilmington College, Wilmington	x	x			2	a, b	x			
Wittenberg University, Springfield	x	x			2	a	cr	x		
Xavier University, Cincinnati	x	x			1	a	cr		x	
The Youngstown University, Youngstown	x	x			2	c				
Oklahoma										
Bethany-Nazarene College, Bethany	x	x			1	c	x			
Central State College, Edmond	x	x			1		x			
East Central State College, Ada		x			1					
Langston University, Langston	x	x			2	b	x		x	
Northwestern State College, Alva	x	x			1	c	x			
Oklahoma Baptist University, Shawnee	x	x			1	c	cr	x	x	
Oklahoma City University, Oklahoma City	x	x			1	c		x		
Oklahoma State University, Stillwater	x	x			1		cr	x		x
Panhandle Agricultural and Mechanical College, Goodwell	x	x			1		cr			
Phillips University, Enid	x	x			2	c	cr			
Southeastern State College, Durant	x	x			1	c				
University of Oklahoma, Norman	x	x			1		cr			x
University of Tulsa, Tulsa	x	x			1	h	x			

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1	2	3	4	5	6	7	8	9	10	11
Oregon										
Eastern Oregon College, La Grande	x	x	----	----	1	----------	----	----	----	
George Fox College, Newberg	x	----	----	----	1	a	x	x	----	
Lewis and Clark College, Portland	x	x	----	----	1	b	x	----	----	
Linfield College, McMinnville	x	x	----	----	2	a	x	----	----	
Marylhurst College, Marylhurst	x	x	----	----	2	a, h	cr	----	----	
Oregon State University, Corvallis	x	x	----	x	1	a, b	cr	x	----	x
Pacific University, Forest Grove	x	x	----	----	1	a	x	x	----	
Portland State College, Portland	x	x	----	----	1	f, g	x	x	----	
Reed College, Portland	x	x	----	----	3	a, b	x	----	----	
Southern Oregon College, Ashland	----	x	----	----	1	a, b	x	----	----	
University of Oregon, Eugene	x	x	x	----	1	----------	cr	x	----	x
University of Portland, Portland	x	x	----	----	1	a, f	cr	x	----	
Willamette University, Salem	x	x	----	----	2	a	cr	x	----	
Pennsylvania										
Albright College, Reading	x	x	----	----	2	b	cr	x	----	
Beaver College, Jenkintown	x	x	----	----	2	a, b	----	----	----	
Bloomsburg State College, Bloomsburg	----	x	----	----	1	f	----	----	x	
Bryn Mawr College, Bryn Mawr	x	x	----	----	3	a	----	x	----	
Bucknell University, Lewisburg	x	x	----	----	2	a	x	x	----	x
California State College, California	----	x	----	----	1	a	cr	x	----	
Carnegie Institute of Technology, Pittsburgh	x	x	----	----	2	a, b	cr	----	----	x
Cedar Crest College, Allentown	x	x	----	----	2	b	----	x	----	
Chatham College, Pittsburgh	x	x	----	----	2	a, b	cr	----	----	
Chestnut Hill College, Philadelphia	x	x	----	----	2	a	cr	x	----	
Clarion State College, Clarion	----	x	----	----	2	a	cr	----	x	
College Misericordia, Dallas	x	x	----	----	1	a	----	----	----	
Dickinson College, Carlisle	x	x	----	----	2	a, b	x	x	----	
Drexel Institute of Technology, Philadelphia	x	----	----	----	2	a, b, g	cr	x	----	x
Duquesne University, Pittsburgh	x	x	----	----	1	a, b	----	----	----	
East Stroudsburg State College, East Stoudsburg	----	x	----	----	1	f	----	----	----	
Eastern Baptist College, St. Davids	x	x	----	----	2	a, b, f	x	----	----	
Elizabethtown College, Elizabethtown	x	x	----	----	1	----------	x	----	----	
Franklin and Marshall College, Lancaster	x	x	----	----	2	a	cr	x	x	
Geneva College, Beaver Falls	x	x	----	----	1	d, e	x	x	----	
Gettysburg College, Gettysburg	x	x	----	----	2	b	cr	----	----	
Grove City College, Grove City	x	x	----	----	1	a, b	x	----	----	
Holy Family College, Philadelphia	x	x	----	----	2	b	----	----	----	
Immaculata College, Immaculata	x	x	----	----	2	a	----	----	----	
Indiana State College, Indiana	----	x	----	----	2	a	x	----	----	
Juniata College, Huntingdon	x	x	----	----	2	a	x	x	----	
King's College, Wilkes-Barre	x	x	----	----	2	a, f, h	cr	x	----	
Kutztown State College, Kutztown	----	x	----	----	1	a	----	----	x	
Lafayette College, Easton	x	x	----	----	2	a, b [12]	cr	x	----	x
Lebanon Valley College, Annville	x	x	----	x	2	a, b	cr	x	x	
Lehigh University, Bethlehem	x	x	----	----	2	a, b	cr	x	----	x
Lincoln University, Lincoln University	x	x	----	----	1	a, b	x	x	----	
Lock Haven State College, Lock Haven	----	x	----	----	1	a	cr	----	x	
Lycoming College, Williamsport	x	x	----	----	2	a	x	----	x	
Marywood College, Scranton	x	x	----	----	2	a, b	----	----	----	
Mercyhurst College, Erie	x	x	----	----	2	b	----	----	----	
Millersville State College, Millersville	----	x	----	----	1	a, b	cr	x	x	
Moravian College, Bethlehem	x	x	----	----	1	a	x	x	----	
Mount Mercy College, Pittsburgh	x	x	----	----	2	b	cr	----	----	
Muhlenberg College, Allentown	x	x	----	----	2	a, b	x	----	x	
The Pennsylvania State University, University Park	x	x	----	----	2	f	cr	x	----	x
Rosemont College, Rosemont	x	x	----	----	2	a, b	cr	----	----	
St. Francis College, Loretto	x	x	----	----	1	a, f	x	----	----	

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1	2	3	4	5	6	7	8	9	10	11
Pennsylvania—Continued										
St. Joseph's College, Philadelphia	x	x	----	----	1	a, b	cr	----	x	
St. Vincent College, Latrobe	x	x	----	----	2	a, b	----	----	----	
Seton Hill College, Greensburg	x	x	----	----	3	a	----	x	----	
Shippensburg State College, Shippensburg	----	x	----	----	1	a	cr	----	x	
Slippery Rock State College, Slippery Rock	----	x	----	----	1	a, h	cr	x	x	
Susquehanna University, Selinsgrove Rock	x	x	----	----	2	a, b	x	----	----	
Swarthmore College, Swarthmore	x	x	----	----	3	a	cr	x	----	
Temple University, Philadelphia	x	x	----	----	2	b	x	----	x	x
University of Pennsylvania, Philadelphia	x	x	x	----	2	a, b	cr	x	----	x
University of Pittsburgh, Pittsburgh	x	x	----	----	2	a, b	cr	x	----	x
University of Scranton, Scranton	x	x	----	----	2	f	x	----	x	
Ursinus College, Collegeville	x	x	----	----	2	a, b [13]	----	----	----	
Villa Maria College, Erie	x	x	----	----	2	----------	cr	----	x	
Villanova University, Villanova	x	x	----	----	2	a, b	x	x	x	x
Washington and Jefferson College, Washington	x	x	----	----	1	a	x	x	----	
Waynesburg College, Waynesburg	x	x	----	----	1	f	x	----	----	
West Chester State College, West Chester	----	x	----	----	1	a, b	----	----	----	
Westminster College, New Wilmington	x	x	----	----	2	a	x	----	----	
Wilkes College, Wilkes-Barre	x	x	----	----	2	f	----	----	----	
Wilson College, Chambersburg	x	x	----	----	1	a	cr	x	----	
Puerto Rico										
Catholic University of Puerto Rico, Ponce	x	x	----	----	1	f	----	----	----	
College of the Sacred Heart, Santurce	x	x	----	----	1	a	----	----	----	
Inter American University, San German	x	x	----	----	1	----------	----	----	----	
University of Puerto Rico, Mayagüez	x	x	----	----	1	f	----	----	x	x
University of Puerto Rico, San Juan	x	x	----	----	1	f	----	----	----	
Rhode Island										
Brown University, Providence	x	x	----	----	3	a, b	cr	x	----	x
Providence College, Providence	x	x	----	----	1	a	x	----	----	
Rhode Island College, Providence	----	x	----	----	1	a	----	----	x	
Salve Regina College, Newport	x	x	----	----	2	a, b	----	x	----	
University of Rhode Island, Kingston	x	x	----	----	2	a, b	x	x	----	x
South Carolina										
Benedict College, Columbia	x	x	----	----	1	h	----	----	x	
Bob Jones University, Greenville	x	x	----	----	1	----------	x	----	----	
The Citadel, Charleston	x	x	----	----	2	a	----	----	x	
Claflin College, Orangeburg	x	x	----	----	1	h	x	----	x	
Clemson Agricultural College, Clemson	x	x	----	----	1	a, b	cr	----	x	x
Coker College, Hartsville	x	x	----	----	2	a, b	x	----	----	
College of Charleston, Charleston	x	x	----	----	2	a, f	----	----	x	
Columbia College, Columbia	x	x	----	----	2	a	cr	----	----	
Converse College, Spartanburg	x	x	----	----	2	a	x	x	----	
Furman University, Greenville	x	x	----	----	2	a	cr	x	----	
Limestone College, Gaffney	x	x	----	----	1	a	----	----	----	
Morris College, Sumter	----	x	----	----	1	----------	----	----	x	
Presbyterian College, Clinton	x	x	----	----	1	a	x	----	x	
South Carolina State College, Orangeburg	x	x	----	----	1	b, f	x	x	x	
University of South Carolina, Columbia	x	x	----	----	2	a, b	cr	----	----	x
Winthrop College, Rock Hill	x	x	----	----	1	b	x	x	----	
Wofford College, Spartanburg	x	x	----	----	2	a, b, f	cr	x	x	

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	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
South Dakota										
Augustana College, Sioux Falls	x	x	----	----	2	a	x	----	----	
Black Hills Teachers College, Spearfish	x	x	----	----	1	c, d, e	----	----	x	
Dakota Wesleyan University, Mitchell	x	x	----	----	1	b	----	----	----	
General Beadle State Teachers College, Madison	----	x	----	----	2	c	----	----	----	
Huron College, Huron	x	x	----	----	1	d	----	----	----	
Mount Marty College, Yankton	x	x	----	----	2	h	----	----	----	
Northern State Teachers College, Aberdeen	x	x	----	----	1	----------	----	----	----	
Sioux Falls College, Sioux Falls	x	x	----	----	1	----------	----	----	----	
South Dakota School of Mines and Technology, Rapid City	x	----	----	----	1	----------	x	----	x	
South Dakota State College, Brookings	x	x	----	----	1	----------	cr	----	----	
Southern State Teachers College, Springfield	----	x	----	----	1	b, f	----	----	x	
State University of South Dakota, Vermillion	x	x	----	----	1	----------	x	x	----	
Yankton College, Yankton	x	x	----	----	1	----------	x	----	----	
Tennessee										
Austin Peay State College, Clarksville	x	x	----	----	1	----------	----	----	x	
Bethel College, McKenzie	x	x	----	----	1	----------	----	----	----	
Carson-Newman College, Jefferson City	x	x	----	----	1	i	x	----	----	
Christian Brothers College, Memphis	x	----	----	----	2	----------	cr	----	x	x
David Lipscomb College, Nashville	x	x	----	----	1	----------	x	----	----	
East Tennessee State College, Johnson City	x	x	----	----	1	i	----	----	x	
George Peabody College for Teachers, Nashville	x	x	----	----	2	----------	cr	x	x	
King College, Bristol	x	x	----	----	2	----------	x	----	----	
Knoxville College, Knoxville	x	x	----	----	1	e, f	cr	----	x	
Lambuth College, Jackson	x	x	----	----	2	h	----	----	----	
Lincoln Memorial University, Harrogate	x	x	----	----	1	----------	----	----	----	
Memphis State University, Memphis	x	x	----	----	1	----------	----	----	----	
Middle Tennessee State College, Murfreesboro	x	x	----	----	1	----------	x	----	----	
Siena College, Memphis	x	x	----	----	1	----------	x	----	----	
Southern Missionary College, Collegedale	x	x	----	----	1	----------	----	----	----	
Southwestern at Memphis, Memphis	x	x	----	----	2	a, b	x	x	----	
Tennessee Agricultural and Industrial State University, Nashville	x	x	----	----	1	h	----	----	x	
Tennessee Polytechnic Institute, Cookeville	x	x	----	----	1	----------	x	x	----	x
Tennessee Wesleyan College, Athens	x	x	----	----	1	----------	x	----	x	
Trevecca Nazarene College, Nashville	x	x	----	----	1	h	x	----	----	
Union University, Jackson	x	x	----	----	2	----------	----	x	----	
University of Chattanooga, Chattanooga	x	x	----	----	1	a	x	x	----	
University of the South, Sewanee	x	----	----	----	2	a	x	----	x	
University of Tennessee, Knoxville	x	x	----	----	2	c	cr	----	----	x
Vanderbilt University, Nashville	x	x	----	----	2	a	x	x	x	x
William Jennings Bryan College, Dayton	x	x	----	----	1	a	x	----	x	
Texas										
Abilene Christian College, Abilene	x	x	----	----	1	c	x	----	----	
Agricultural and Mechanical College of Texas, College Station	x	x	----	----	2	h	cr	----	x	x
Arlington State College, Arlington	x	----	----	----	1	----------	cr	----	x	
Austin College, Sherman	x	x	----	----	2	a	x	----	----	
Baylor University, Waco	x	x	----	----	1	c	x	----	x	
East Texas State College, Commerce	x	x	----	----	1	g	x	----	----	
Hardin-Simmons University, Abilene	x	x	----	----	1	----------	----	----	----	
Howard Payne College, Brownwood	x	x	----	----	1	a, c	----	----	----	x
Huston-Tillotson College, Austin	x	x	----	----	1	----------	----	----	x	
Incarnate Word College, San Antonio	x	x	----	----	2	a, c	x	----	x	
Jarvis Christian College, Hawkins	x	x	----	----	1	----------	----	----	x	
Lamar State College of Technology, Beaumont	x	x	----	----	2	a	cr	----	----	x
Mary Hardin-Baylor College, Belton	x	x	----	----	1	f	x	----	x	
McMurry College, Abilene	x	x	----	----	2	c	----	----	x	

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathematics				Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
Texas—Continued										
North Texas State University, Denton	x	x			1	c	cr	x		
Our Lady of the Lake College, San Antonio	x	x			1	e	cr			
Pan American College, Edinburg	x	x			1		x		x	
Rice University, Houston	x	x			3	a, b	cr		x	x
Sacred Heart Dominican College, Houston	x	x			2	b				
St. Mary's University, San Antonio	x	x			1	b	x		x	
Southern Methodist University, Dallas	x	x	x	x	1	a	x	x	x	x
Southwest Texas State College, San Marcos	x	x			1	d	cr	x	x	
Southwestern University, Georgetown	x	x			2	a	cr			
Stephen F. Austin State College, Nacogdoches	x	x			1	b, c, f	cr			
Sul Ross State College, Alpine	x	x			1		cr			
Tarleton State College, Stephenville	x	x			1				x	
Texas Christian University, Fort Worth	x	x			1	f	x	x		
Texas College of Arts and Industries, Kingsville	x	x			1	c				
Texas Lutheran College, Seguin	x	x			2	a	cr	x		
Texas Southern University, Houston	x	x			1	f			x	
Texas Technological College, Lubbock	x	x			2	b	cr	x		x
Texas Wesleyan College, Fort Worth	x	x			2	a, b	cr			
Texas Western College, El Paso	x	x			1	f			x	x
University of Corpus Christi, Corpus Christi	x	x			1		x		x	
University of Dallas, Dallas	x	x			2		x			
University of Houston, Houston	x	x			1	f	cr	x		x
University of Saint Thomas, Houston	x	x			2		x			
University of Texas, Austin	x	x		x	2	f	x			x
West Texas State College, Canyon	x	x			1		x			
Wiley College, Marshall	x	x			1		x		x	
Utah										
Brigham Young University, Provo	x	x	x		1	a	cr	x		x
University of Utah, Salt Lake City	x	x			1	h	x			x
Utah State University, Logan	x	x			1					x
Westminster College, Salt Lake City	x	x			1	h				
Vermont										
Bennington College, Bennington	x	x			2	a	x			
Goddard College, Plainfield	x	x			2	a	x			
Middlebury College, Middlebury	x	x			2	a, b	x	x		
St. Michael's College, Winooski	x	x			3	a	cr	x		
State Teachers College, Castleton		x			1	a, d	x			
Trinity College, Burlington	x	x			2	a			x	
University of Vermont, Burlington	x	x			1	a	x	x		x
Virginia										
Bridgewater College, Bridgewater	x	x			2		x		x	
College of William and Mary, Williamsburg	x	x			2	a, b	x			
College of William and Mary, Norfolk	x	x			1	a	x	x	x	
Eastern Mennonite College, Harrisonburg	x	x			2	a, b, f, g	x			
Emory and Henry College, Emory	x	x			1	b, g, h	cr		x	
Hampton Institute, Hampton	x	x			1		cr	x	x	
Hollins College, Hollins College	x	x	x		2	a, b	x	x		
Longwood College, Farmville	x	x			1	a, d	cr	x	x	
Lynchburg College, Lynchburg	x	x			1					
Madison College, Harrisonburg	x	x			1	a			x	
Mary Baldwin College, Staunton	x	x			2	a	x			
Radford College, Radford	x	x			1	a	cr		x	
Mary Washington College, Fredericksburg	x	x			2	a	x	x		
Randolph-Macon College, Asbland	x	x			2	a	x		x	

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	Liberal arts or general, applied, engineering	Teaching or provision for teaching	Statistics	Actuarial science						
1	2	3	4	5	6	7	8	9	10	11
Virginia—Continued										
Randolph-Macon Woman's College, Lynchburg	x	x			2	a, b	x	x		
Roanoke College, Salem	x	x			1	a	cr	x	x	
Sweet Briar College, Sweet Briar	x	x			2	a	x			
University of Richmond, Richmond	x	x			1		x			
University of Virginia, Charlottesville	x	x			3	a	cr		x	x
Virginia Military Institute, Lexington	x	x			2	a			x	
Virginia Polytechnic Institute, Blacksburg	x	x	x		1	a, b, f	cr			x
Virginia State College, Petersburg	x	x			1				x	
Virginia Union University, Richmond	x	x			1				x	
Washington and Lee University, Lexington	x	x			2	a	cr			
Washington										
Central Washington State College, Ellensburg	x	x			1		x			
Gonzaga University, Spokane	x	x			2	a, b	cr		x	
Pacific Lutheran University, Tacoma	x	x			1	a	x			
St. Martin's College, Olympia	x	x			1	f	x			
Seattle Pacific College, Seattle	x	x			1		x			
Seattle University, Seattle	x	x			1	h	x			
University of Puget Sound, Tacoma	x	x			1	a	x	x		
University of Washington, Seattle	x	x	x		1		cr	x		x
Walla Walla College, College Place	x	x			1					
Washington State University, Pullman	x	x			1	(*)	(*)	(*)	(*)	x
Western Washington State College, Bellingham	x	x			1	g	x	x	x	x
Whitworth College, Spokane	x	x			1	a, f, g	x		x	
West Virginia										
Alderson-Broaddus College, Philippi	x	x			1	f	x			
Bluefield State College, Bluefield	x	x			1	b				
Concord College, Athens	x	x			1	d			x	
Davis and Elkins College, Elkins	x	x			1	a	x		x	
Fairmont State College, Fairmont	x	x			1	f				
Glenville State College, Glenville	x	x			1	h				
Marshall University, Huntington	x	x			1		x	x	x	
Morris Harvey College, Charleston	x	x			1		cr			
Salem College, Salem	x	x			1					
Shepherd College, Shepherdstown	x	x			1		x	x		
West Virginia Institute of Technology, Montgomery	x	x			1					
West Virginia State College, Institute	x	x			1	b	cr			
West Virginia University, Morgantown	x	x			1	c	cr	x		x
Wheeling College, Wheeling	x				2					
Wisconsin										
Alverno College, Milwaukee	x	x			1	h	x	x		
Beloit College, Beloit	x	x			2	a	cr	x	x	
The Cardinal Stritch College, Milwaukee	x	x			2	a, f	x	x		
Carroll College, Waukesha	x	x			1	a	cr			
Dominican College, Racine	x	x			2	a			x	
Holy Family College, Manitowoc	x	x			1	c, f			x	
Lakeland College, Sheboygan	x	x			1		x			
Marquette University, Milwaukee	x	x			1	a, b	cr	x		x
Milton College, Milton	x	x			2	c				
Milwaukee-Downer College, Milwaukee	x	x			1	a	x			
Mount Mary College, Milwaukee	x	x			2	a	x		x	
Northland College, Ashland	x	x			2	c, f	x		x	
Ripon College, Ripon	x	x			2		cr			
St. Norbert College, West De Pere	x	x			1	f	cr			
University of Wisconsin, Madison	x	x	x		2		cr	x		x
University of Wisconsin, Milwaukee	x	x			2		cr			

See footnotes at end of table.

Undergraduate Degree Programs in Mathematics in Colleges and Universities: 1961—Con.

Name and location of institution, by State	Degree curriculum in mathmatics: Liberal arts or general, applied, engineering	Degree curriculum in mathmatics: Teaching or provision for teaching	Degree curriculum in mathmatics: Statistics	Degree curriculum in mathmatics: Actuarial science	Lowest level of mathematics offered, fall 1960	Required admission examination which includes mathematics	Programs of advanced standing offered	Special programs offered, such as honors	Course in college-level mathematics required	Digital computer on campus
1	2	3	4	5	6	7	8	9	10	11
Wisconsin—Continued										
Wisconsin State College, Eau Claire	x	x	----	----	2	f	----	----	----	
Wisconsin State College, La Crosse	x	x	----	----	1	----------	----	----	x[14]	
Wisconsin State College, Oshkosh	x	x	----	----	1	----------	x	----	----	
Wisconsin State College, Stevens Point	x	x	----	----	1	h	x	----	x	
Wisconsin State College, Superior	x	x	----	----	2	----------	----	----	----	
Wisconsin State College, Whitewater	x	x	----	----	1	----------	----	----	----	
Wisconsin State College and Institute of Technology, Platteville.	x	x	----	----	1	f, h	cr	----	x	
Wyoming										
University of Wyoming, Laramie	x	x	x	----	1	f	x[15]	x	----	x

[1] At the time of the survey only upper division work was given at Orange County State College.

[2] At the time of the survey only upper division work was given at Stanislaus State College.

[3] *College Entrance Examination Board, Aptitude and Achievement:* All out-of-state students. *College Entrance Examination Board, Aptitude:* All in-state students.

[4] Students in lower third of high school are required to come to campus for testing before action is taken on application.

[5] College Entrance Examination Board may be substituted.

[6] *American College Testing* program and *College Entrance Examination Board* (Aptitude) if seeking scholarships.

[7] For applicants without high school algebra.

[8] For some students.

[9] Required of some.

[10] Flint College offers junior and senior years only *School and College Ability Test* is required for entering juniors having a grade point average less than 2.7.

[11] For New York State students.

[12] For mathematics, science, and engineering students only.

[13] For scholarship applicants.

[14] For Bachelor of Science only.

[15] College credit may be established by examination, not required.

* Information not provided by respondent.

Institutions Which Grant Bachelor's Degrees in Mathematics But Did Not Participate in the Survey

Alabama

Alabama Agricultural and Mechanical College, Normal
Alabama State College, Montgomery
Athens College, Athens
Jacksonville State College, Jacksonville
Judson College, Marion
Miles College, Birmingham
Oakwood College, Huntsville
Stillman College, Tuscaloosa

Arkansas

Arkansas Agricultural and Mechanical College, College Heights
College of the Ozarks, Clarksville
Philander Smith College, Little Rock

California

La Verne College, La Verne
Long Beach State College, Long Beach
Mills College, Oakland
Pacific Union College, Angwin
San Francisco State College, San Francisco
Scripps College, Claremont
University of the Pacific, Stockton
University of Redlands, Redlands
University of San Diego, College for Men, San Diego

Colorado

Colorado State College, Greeley

Connecticut

New Haven College, West Haven
St. Joseph College, West Hartford
Southern Connecticut State College, New Haven

Florida

Bethune-Cookman College, Daytona Beach
Florida Southern College, Lakeland
Jacksonville University, Jacksonville
Rollins College, Winter Park
University of South Florida, Tampa

Georgia

Atlanta University, Atlanta University System, Atlanta
Clark College, Atlanta
Fort Valley State College, Fort Valley
Georgia Southern College, Statesboro
Georgia State College, Atlanta

Idaho

Northwest Nazarene College, Nampa

Illinois

Barat College of the Sacred Heart, Lake Forest
Illinois College, Jacksonville
McKendree College, Lebanon
Rockford College, Rockford
Roosevelt University, Chicago

Indiana

Hanover College, Hanover
Wabash College, Crawfordsville

Iowa

Briar Cliff College, Sioux City
Parsons College, Fairfield

Kansas

Friends University, Wichita
Kansas State College of Pittsburg, Pittsburg
McPherson College, McPherson

Kentucky

Centre College of Kentucky, Danville
Kentucky State College, Frankfort
Transylvania College, Lexington

Louisiana

Centenary College, Shreveport
Dillard University, New Orleans
Grambling College, Grambling
Louisiana College, Pineville
Louisiana State University, Baton Rouge
Southeastern Louisiana College, Hammond
The University of Southwestern Louisiana, Lafayette

Maine

Ricker College, Houlton

Maryland

Loyola College, Baltimore

Massachusetts

Amherst College, Amherst
Lesley College, Cambridge
Springfield College, Springfield

Michigan

Adrian College, Adrian

Minnesota

Bemidji State College, Bemidji

Mississippi

Alcorn Agricultural and Mechanical College, Lorman
Jackson State College, Jackson
Millsaps College, Jackson
Mississippi Industrial College, Holly Springs
Mississippi State College for Women, Columbus
Mississippi Vocational College, Itta Bena
William Carey College, Hattiesburg

Missouri

Drury College, Springfield
Lindenwood College for Women, St. Charles
Maryville College of the Sacred Heart, St. Louis
Missouri Valley College, Marshall
Northwest Missouri State College, Maryville
Park College, Parkville
Westminster College, Fulton

Montana

Rocky Mountain College, Billings
Western Montana College of Education, Dillon
Montana State University, Missoula

Nebraska

Hastings College, Hastings

New Hampshire

Mount St. Mary College, Hooksett
Plymouth Teachers College, Plymouth

New Jersey

Shelton College, Ringwood
Upsala College, East Orange

New Mexico

College of St. Joseph on the Rio Grande, Albuquerque
St. Michael's College, Sante Fe

New York

Bard College, Annandale-on-Hudson
College of New Rochelle, New Rochelle
Houghton College, Houghton
Keuka College, Keuka Park
Long Island University, Brooklyn
Manhattanville College of the Sacred Heart, Purchase
Notre Dame College of Staten Island, Staten Island
Queens College, Flushing
State University of New York, College at Buffalo

North Carolina

Agricultural and Technical College of North Carolina, Greensboro
Greensboro College, Greensboro
Guilford College, Guilford College
High Point College, High Point
Johnson C. Smith University, Charlotte
North Carolina College at Durham
St. Augustine's College, Raleigh

Ohio

Bluffton College, Bluffton
Hiram College, Hiram
Miami University, Oxford
Wilberforce University, Wilberforce

Oklahoma

Northeastern State College, Tahlequah
Oklahoma College for Women, Chickasha
Southwestern State College, Weatherford

Pennsylvania

Allegheny College, Meadville
Alliance College, Cambridge
Edinboro State College, Edinboro
Gannon College, Erie
Haverford College, Haverford
LaSalle College, Philadelphia
Mansfield State College, Mansfield
Thiel College, Greenville

Puerto Rico

University of Puerto Rico, Río Piedras

South Carolina

Allen University, Columbia
Erskine College, Due West
Newberry College, Newberry

Tennessee

Fisk University, Nashville
Lane College, Jackson
Le Moyne College, Memphis
Maryville College, Maryville
Milligan College, Milligan College
Tusculum College, Greeneville

Texas

Bishop College, Marshall
East Texas Baptist College, Marshall
Midwestern University, Wichita Falls
Paul Quinn College, Waco
Prairie View Agricultural and Mechanical College, Texas Agricultural and Mechanical College System, Prairie View
Sam Houston State Teachers College, Huntsville
Texas College, Tyler
Texas Woman's University, Denton
Trinity University, San Antonio
Wayland Baptist College, Plainview

Vermont

Norwich University, Northfield

Virginia

Hampden-Sydney College, Hampden-Sydney

Washington

Eastern Washington State College, Cheney
Pacific Lutheran College, Tacoma
Whitman College, Walla Walla

West Virginia

Bethany College, Bethany
West Liberty State College, West Liberty
West Virginia Wesleyan College, Buckhannon

Wisconsin

Lawrence College, Appleton
Wisconsin State College, River Falls

Bibliography on Careers in Mathematics

General

Careers for Majors in Mathematics. New York 17 (50 East 42d Street): World Trade Academy Press, Inc., 1959. 30 p. $1.25.

This monograph describes professions in mathematics, nature of the work, historical background, training, opportunities, advantages, disadvantages, where employment is found, scholarships, fellowships, and other financial aid available to students.

Careers in Mathematics, *The Mathematics Teacher*, Vol. LIII, No. 5, May 1960. p. 340–343.

This article discusses employment opportunities for the person trained in mathematics in teaching, industry, and government. Included are such topics as the nature of the work, personal satisfactions, job requirements, and salary prospects in the various broad fields.

Careers in Mathematics. Chicago: The Institute for Research, (Research No. 262), 1960. 24 p. $1.00.

This monograph is intended to give students in high school and liberal arts colleges a panoramic view of vocational opportunities in the field of mathematics for those who major in the subject at the college or graduate school level. It provides information on types of mathematical work; places of employment; necessary personal qualifications and educational background, including a discussion of the various degree programs and scholarships and fellowships available; salary expectations; and an appraisal of the attractive and unattractive features of mathematical work. (Also included is a brief discussion of the history of mathematics.)

Careers in Mathematics. Washington 6 (1201 Sixteenth Street, NW.): National Council of Teachers of Mathematics, 1961. 28 p. 25¢.

This booklet contains short biographies of eight young mathematicians and additional detailed information about the training necessary for both those jobs which are not mathematical in themselves but require training in mathematics and those that are basically mathematical in nature.

Employment Outlook for Mathematicians, Statisticians, and Actuaries. Bureau of Labor Statistics, U.S. Department of Labor. Washington: Superintendent of Documents, U.S. Government Printing Office, 1961. 10 p. 10¢.

The nature of the work, employment opportunities, training and other qualifications, employment outlook, earnings and working conditions, and sources of further information are reviewed for each of the three fields given in the title.

Jobs in Mathematics. Chicago 11 (259 East Erie): Science Research Associates, Inc., 1959. 32 p. $1.00 each for 1 to 9 copies. 75¢ each for 10 or more copies. Add 35¢ to copy price for postage and handling charge.

This booklet discusses the type of work, employment outlook, salary expectations, and necessary preparations for such representative careers in mathematics as accounting, the actuarial field, electronic computing, teaching, and statistics. Also included are a set of questions designed to help the individual evaluate his possible success in the field of mathematics, general sources of information about jobs in mathematics, and a bibliography for further reading.

Mathematician. Largo, Fla.: Careers, 1958. 8 p. 25¢.

A very good picture of the mathematician is given in this pamphlet. Emphasized are the duties, working conditions, hours, earnings, personal qualifications, training, outlook, where employed, opportunities for women, related careers, and a suggested high school program for those interested in mathematics as a profession.

Mathematics and Your Career. Bureau of Labor Statistics, U.S. Department of Labor. Washington: Superintendent of Documents, U.S. Government Printing Office, 1960. 9 p. 20¢.

The purpose of this pamphlet is to bring the facts about the mathematics training required for employment in different occupations to the attention of high school students interested in planning their occupations. Many occupations which require some mathematical training are listed.

Mathematics as a Career. New York 71 (Riverdale): Manhattan College, 6 p. Free. (Guidance Bulletin No. 23).

Briefly presented in this career folder are the values of mathematics, good reasons for specializing in mathematics, some career opportunities, possible related fields of interest, earnings, and basic qualifications needed.

New Careers in the Health Sciences. New York 19 (1790 Broadway): National Health Council, 1961. 24 p. Single copies free.

The purpose of this pamphlet is to highlight the many changes that are creating new roles and new relationships in the health field for all the sciences. These advances are opening up new opportunities in the field of mathematics, many of which are discussed in this publication.

Opportunities in Mathematics, by Harry M. Gehman. New York: Vocational Guidance Manuals, Inc. (212–22 48th Avenue, Bayside 64), 1960. 80 p. $1.65.

This career book includes a description of type of work, necessary training, steps for securing employment, and salary expectations for the industrial mathematician, the mathematician in government, college and high school teachers of mathematics, the actuary, the statistician, electronic computer operators, and those engaged in new phases of mathematics, such as meteorology, missiles, and operations research. Of interest also is a list of mathematical organizations and bibliographical material.

Preparations for Careers. Miami, Fla. (Coral Gables): The University of Miami, 1962. 48 p. Free.

Although written mainly as a promotional bulletin, this illustrated book gives brief descriptions of the many vocational opportunities in the field of mathematics and other disciplines.

Professional Mathematics Work in Industry and Science, *Monthly Labor Review*, September, 1961. p. 984–990.

This article represents a condensation of a survey report from questionnaires distributed among professional full-

time personnel involved in predominantly mathematical work in industry and government. Described are such employee characteristics as age and sex, educational attainment, professional experience and job-changing 1950–60 and such characteristics of mathematical positions as mathematics education required, place of employment, major functions, and income.

Professional Opportunities in Mathematics. Buffalo 14: University of Buffalo, The Mathematical Association of America, 1961. 32 p. 25¢.

Contents of this booklet include the teacher of mathematics, opportunities in mathematics and applied statistics, the mathematician in industry, mathematicians in government, opportunities in the actuarial profession, nonacademic employment of mathematicians, and references for further reading.

Should You Be a Mathematician? New York 10 (Box 51, Madison Square Station): New York Life Insurance Co., 1958. 15 p. Free.

Included in this booklet are a general introduction to mathematics, the acute shortage in the field, specialties in mathematics, financial rewards, drawbacks, qualifications, and education required.

Why Study Math? Schenectady 5, N.Y. (1 River Road): General Electric Co., Publications for Schools, 1959. 4 p. Free.

This article gives very good background discussion on the importance of mathematics in our modern society. Opportunities for mathematicians are highlighted. It is one section of a general career information booklet on science, mathematics, and engineering.

You and Your Career. New York 19 (640 Fifth Avenue): Library and Educational Division, Collier's Encyclopedia, 1960. 30 p. 50¢.

Written specially for guidance purposes, this book provides interested students with vital information about 113 careers in the fields of science, mathematics, and engineering. This information, given in chart form, includes the nature of the work, employment trends, qualifications, preparation, entrance requirements, chances for advancement, earnings, and competition in the various fields. Special coverage is given to careers in science.

Opportunities for Women

Employment Opportunity for Women Mathematicians and Statisticians. Women's Bureau, U.S. Department of Labor. Washington: Superintendent of Documents, U.S. Government Printing Office, 1956. 37 p. 25¢.

The findings of survey groups, number of women mathematicians and statisticians, characteristics of surveyed groups, demand for women mathematicians and statisticians in 1955, the future demand and supply, preparation needed, personal characteristics, how to obtain employment, advancement, earnings, working conditions, organizations and helpful tables are all given in this comprehensive booklet.

Is Math in the Stars for You? Women's Bureau, U.S. Department of Labor. Washington: Superintendent of Documents, U.S. Government Printing Office, 1957. 6 p. 5¢.

Opportunities for women mathematicians in teaching, the computing field, scientific fields, research, statistics, actuarial work, accounting, and pure mathematics are reviewed in this leaflet. Prospects for the present and the future are discussed.

Opportunities for Women in the Field of Mathematics. Boston 15: Simmons College, 1959. 2 p. Free.

How one can prepare to become a mathematician, the aptitudes or personality traits needed, opportunities for women in this field, salaries, and suggested books for the ambitious student to read are given in this pamphlet.

Actuary

A Career With a Future—Actuary. New York 10 (1 Madison Avenue): Metropolitan Life Insurance Co. 2 p. Free.

Information on what an actuary is and what he does is given as an introduction to this brief career publication. The advantages of an actuarial career, the qualifications required, and information on how to enter the field are further presented.

If You Have an Interest in Mathematics . . . . New York 22 (488 Madison Avenue): Institute of Life Insurance, 1961. 13 p. Free.

In addition to presenting the increasingly varied duties of the actuary in the light of new developments in the field, this career booklet discusses necessary training, places of employment, and opportunities for advancement in the actuarial profession.

The Prudential Actuarial Training Program. Newark, New Jersey: Educational Relations Department, The Prudential Insurance Company of America. 15 p. Free.

The increasingly complex and varied role of the actuary, the background for success, the steps in becoming an actuary, and the progress and rewards of such a career are the subject of this booklet.

Should You Be An Actuary? New York 10 (Box 51, Madison Square Station): New York Life Insurance Co., 1961. 11 p. Free.

This booklet presents the unique duties of an actuary and the rigorous requirements, essential college training, salaries and benefits, and job outlook for the actuarial field.

Computer Occupations

Computer Occupations. Detroit 2 (7310 Woodward Avenue): Occupational Research Unit, Michigan Employment Security Commission, 1960. 24 p. 25¢ (Occupational Guide No. 26).

This occupational guide covers the five basic electronic data processing occupations found in business computer installations: systems analyst, programmer, console operator, auxiliary machine operator, and tape librarian. Discussed are working conditions, location of jobs, earnings, employment outlook, requirements for entry, and advantages and disadvantages. For further reading a bibliography is included.

Employment Outlook for Electronic Computer Operating Personnel and Programmers. Bureau of Labor Statistics, U.S. Department of Labor. Washington: Superintendent of Documents, U.S. Government Printing Office, 1961. 9 p. 10¢.

This booklet reports the type of work; places of employment; training, other qualifications, and advancement; employment outlook; earnings and working conditions; and sources of further information for the various computer operating personnel and for programmers.

Occupations in Electronic Data-Processing Systems. Bureau of Employment Security, U.S. Department of

Labor. Washington: U.S. Government Printing Office, 1959. 44 p. (Out of print.)

Designed to meet a recognized need for basic job information in the field of electronic data processing, this brochure presents job descriptions of 13 occupations. A brief account of the duties performed and the skills and knowledges necessary to the performance of those duties is included for each occupation. Of interest also is a functional organization chart of the electronic data-processing system and an appendix of sources of additional information.

Statistics

Careers in Statistics. Washington 6 (810 18th Street, NW.): American Statistical Association, 1962. 23 p. Free.

The purpose of this booklet is to give concise answers to the following questions: What is statistics? What do statisticians do? Where do statisticians work? What education should one seek? What is the future of statistics? What salary may a statistician expect? Where can one get more information?

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